

Abstract^{of the Disclosure}

METHOD AND APPARATUS FOR TRANSMITTING INFORMATION IN
VARIOUS CARRIER FREQUENCIES WITH A FREQUENCY HOPPING
METHOD

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^A The present invention is directed to a method and to an apparatus^{for transmitting} for the transmission of information in various carrier frequencies with a frequency hopping method, whereby a table with a plurality of N possible carrier frequency values f_x in addresses 1 through N of the table 25 is thereby offered, and whereby the N possible carrier frequency values are arranged in n sub-groups. A sequence of random values

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is generated. At least a part M of the N carrier frequency values f_x is read from the table, whereby the carrier frequency values within each sub-group are read out from the corresponding addresses on the basis of the generated sequence of random values and the sub-groups are read out in a specific sequence, whereby $M \leq N$ applies.

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Information or, respectively, data are subsequently transmitted in carrier frequencies that correspond to the carrier frequency values that have been read out. The method and the apparatus of the present invention can be implemented, for example, in a mobile station and/or a base station of a mobile radiotelephone system.

~~Figure 3~~